

electrodes overlapping one another and forming a discharge chamber, and resonator mirrors provided within said housing, characterized in that

said electrodes are each supported at the opposite ends of said tubular housing,

said mirrors are supported in stationary relationship relative to the electrodes and

said electrodes and mirrors are adjustable relative to one another.

31. (Added) A CO₂ slab laser having a gas-filled chamber defined by a tubular housing, with at least two electrodes that extend into the tubular housing, said electrodes overlapping one another and forming a discharge chamber, and resonator mirrors provided within said housing, characterized in that

said electrodes are each supported at the opposite ends of said tubular housing,

said mirrors are designed in one piece with said electrodes and

said electrodes and mirrors are adjustable relative to one another.

32. (Added) A CO₂ slab laser having a gas-filled chamber defined by a tubular housing, with at least two electrodes that extend into the tubular housing, said electrodes overlapping one another and forming a discharge chamber, and resonator mirrors provided within said housing, characterized in that

said electrodes each are held at the opposite ends of said tubular housing,

said mirrors are supported in stationary relationship relative to said

electrodes and

said electrodes and said mirrors are adjustable relative to one another.

33. (Added) A CO₂ slab laser according to Claim 32, characterized in that the electrodes are designed in one piece with the end pieces.

34. (Added) A CO₂ slab laser according to claim 33 with at least one of the end pieces attached to the tubular housing by way of a flexible bearing.

35. (Added) A CO₂ slab laser according to Claim 34, characterized in that the flexible bearing is a bellows.

36. (Added) A CO₂ slab laser according to Claim 35, characterized in that the adjusting elements contain piezoelectric crystals which are capable of being driven electrically.

37. (Added) A CO₂ slab laser having a gas-filled chamber defined by a tubular housing as set forth in Claim 31, characterized in that the electrodes are held by the end pieces sealing off the tubular housing.

38. (Added) A CO₂ slab laser according to Claim 32, characterized in that said mirrors are designed in one piece with end pieces forming a part of said housing.

39. (Added) A CO₂ slab laser according to Claim 31, characterized in that said mirrors are designed in one piece with end pieces forming a part of said housing.

40. (Added) A CO₂ slab laser according to Claim 30, characterized in that the tubular housing is designed in two parts, said two parts being interconnected and adjustable relative to one another.

41. (Added) A CO₂ slab laser according to Claim 31, characterized in that the tubular housing is designed in two parts, said two parts being interconnected and adjustable relative to one another.

42. (Added) A CO₂ slab laser according to Claim 32, characterized in that the tubular housing is designed in two parts, said two parts being interconnected and adjustable relative to one another.

43. (Added) A CO₂ slab laser according to Claim 33 characterized in that the tubular housing is designed in two parts, said two parts being interconnected and adjustable relative to one another.

44. (Added) A CO₂ slab laser according to Claim 37, characterized in that the tubular housing is designed in two parts, said two parts being interconnected and adjustable relative to one another.

45. (Added) A CO₂ slab laser according to Claim 38, characterized in that the tubular housing is designed in two parts, said two parts being interconnected and adjustable relative to one another.

46. (Added) A CO₂ slab laser according to Claim 39, characterized in that the tubular housing is designed in two parts, said two parts being interconnected and adjustable relative to one another.

47. (Added) A CO₂ slab laser according to Claim 32, characterized in that at least one of the end pieces defining said housing is attached to the tubular housing by way of a flexible bearing.

48. (Added) A CO₂ slab laser according to Claim 33, characterized in that at least one of the end pieces defining said housing is attached to the tubular housing by way of a flexible bearing.

49. (Added) A CO₂ slab laser according to Claim 33, characterized in that at least one of the end pieces defining said housing is attached to the tubular housing by way of a flexible bearing.

50. (Added) A CO₂ slab laser according to Claim 1, characterized by adjusting elements that are supported on the tubular housing and act on the electrodes.